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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/693,679	10/19/2000	Paul Fulton	3COM-2741.WHD.US.P	7209
7590	12/27/2005		EXAMINER	
Wagner Murabito & Hao LLP Two North Market Street Third Floor San Jose, CA 95113				WARE, CICELY Q
			ART UNIT	PAPER NUMBER
			2634	

DATE MAILED: 12/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/693,679	FULTON, PAUL
	Examiner Cicely Ware	Art Unit 2634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 03 October 2005.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-30 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-10 and 21-30 is/are rejected.  
 7) Claim(s) 11-20 is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 03 October 2005 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|  | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### ***Response to Arguments***

1. Applicant's arguments, see REMARKS, filed 10/03/2005, with respect to the rejection(s) of claim(s) 1, 11, 12 under 35 USC 102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Gagnon (*textbook Ch. 23, Windows 98 Installation & Configuration Handbook*).

### ***Claim Objections***

2. Claims 11-20 are objected to because of the following informalities:
  - a. Claim 11, contains a method and an apparatus.Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-10, 21-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsukane et al. (US Patent 5,467,341) (cited previously) in view of Gagnon (*textbook Ch. 23, Windows 98 Installation & Configuration Handbook*).

(1) With regard to claim1, Matsukane et al. discloses in a method indicating reception performance of a wireless signal at a radio frequency peripheral component card of a computer system said method comprising: receiving said wireless signal at a wireless receiver said radio frequency peripheral component card; demodulating said wireless signal; determining an error rate of a digital data portion of said wireless signal; and indicating a quality level of reception of said wireless signal at said electronic device based on said error rate (abstract, col. 1, lines 7-10, 13-47, 53-59, col. 5, lines 40-47, 54-57, col. 6, lines 55-65, col. 8, lines 23-36, col. 10, lines 22-26, col. 12, lines 26-35, ).

However Matsukane et al. does not disclose indicating a quality level of reception using an indicator component of said radio frequency peripheral component card.

However Gagnon discloses indicating a quality level of reception using an indicator component of said radio frequency peripheral component card (Ch. 23).

Therefore it would have been obvious to one of ordinary skill in the art to modify Matsukane et al. in view of Gagnon to incorporate indicating a quality level of reception using an indicator component of said radio frequency peripheral component card in order to verify the status of connection (Gagnon, Ch. 23).

(2) With regard to claim 2, claim 2 inherits all the limitations of claim 1. Matsukane et al. further discloses wherein said quality level of reception is indicated via a light-emitting device (col. 6, lines 21-30, col. 7, lines 40-42, col. 8, lines 59-67, col. 9, lines 1-8).

(3) With regard to claim 3, claim 3 inherits all the limitations of claim 1. Matsukane et al. further discloses the step of linearly translating said error rate into said

quality level to notify of the favorable reception state by the luminescence (display)(col. 4, lines 19-21, col. 8, col. 8, lines 59-67, col. 9, lines 1-8).

(4) With regard to claim 4, claim 4 inherits all the limitations of claim 1.

Matsukane et al. further discloses wherein said error rate is a packet error rate to notify of the favorable reception state (abstract, col. 3, lines 32-35)

(5) With regard to claim 5, claim 5 inherits all the limitations of claim 4.

Matsukane et al. further discloses wherein the packet error rate is determined by a cyclic redundancy code (CRC) algorithm (abstract, col. 3, lines 32-38, col. 10, lines 4-5).

(6) With regard to claim 6, claim 6 inherits all the limitations of claim 4.

Matsukane et al. further discloses wherein the packet error rate is determined by a forward error correction algorithm to enable two-way error free transfer of data (col. 3, lines 32-35).

(7) With regard to claim 7, claim 7 inherits all the limitations of claim 1.

Furthermore, Matsukane et al. further discloses wherein said quality level is linearly proportional to said error rate of said wireless signal (col. 6, lines 25-27, col. 9, lines 2-8).

(8) With regard to claim 8, claim 8 inherits all the limitations of claim 1.

Furthermore, Matsukane et al. further discloses the step of adaptively updating said step(c of determining said error rate and said step d) of indicating said quality level (col. 9, lines 21-41).

(9) With regard to claim 9, claim 9 inherits all the limitations of claim 1.

Furthermore, Matsukane et al. further discloses in the steps of recording a history of

said quality level with respect to another variable; identifying a maximum quality level; and indicating when said quality is at said maximum level (col. 8, lines 59-65, col. 9, lines 1-20).

(10) With regard to claim 10, claim 10 inherits all the limitations of claim 1. Furthermore, Matsukane et al. discloses in the steps of providing feedback to control reception, said feedback relate to said quality level of reception; and adjusting said reception based on said feedback, thereby improving said quality level of said reception (col. 7, lines 17-26, col. 9, lines 9-10).

(11) With regard to claim 21, claim 21 inherits all the limitations of claim 1. Matsukane et al. further discloses a computer readable medium containing therein computer readable codes for causing a radio frequency peripheral component card of a computer system to implement a method of managing multipath signals to increase the degree of mobility and increase the area of communication coverage (col. 1, lines 61-67, col. 2, lines 1-30, 66-67, col. 3, lines 1-4, col. 10, lines 18-29).

(12) With regard to claim 22, claim 22 inherits all the limitations of claim 21. Matsukane et al. further discloses wherein said quality level of reception is indicated via a light-emitting device (col. 6, lines 21-30, col. 7, lines 40-42, col. 8, lines 59-67, col. 9, lines 1-8).

(13) With regard to claim 23, claim 23 inherits all the limitations of claim 21. Matsukane et al. further discloses the step of linearly translating said error rate into said quality level to notify of the favorable reception state by the luminescence (display)(col. 4, lines 19-21, col. 8, col. 8, lines 59-67, col. 9, lines 1-8).

(14) With regard to claim 24, claim 24 inherits all the limitations of claim 21.

Matsukane et al. further discloses wherein said error rate is a packet error rate (abstract, col. 3, lines 32-35).

(15) With regard to claim 25, claim 25 inherits all the limitations of claim 24.

Matsukane et al. further discloses wherein the packet error rate is determined by a cyclic redundancy code (CRC) algorithm (abstract, col. 3, lines 32-38).

(16) With regard to claim 26, claim 26 inherits all the limitations of claim 24.

Matsukane et al. further discloses wherein the packet error rate is determined by a forward error correction algorithm (col. 3, lines 32-35).

(17) With regard to claim 27, claim 27 inherits all the limitations of claim 21.

Furthermore, Matsukane et al. further discloses wherein said quality level is linearly proportional to said error rate of said wireless signal (col. 6, lines 25-27, col. 9, lines 2-8).

(18) With regard to claim 28, claim 28 inherits all the limitations of claim 21.

Furthermore, Matsukane et al. further discloses the step of adaptively updating said of determining said error rate and said step of indicating said quality level (col. 9, lines 21-41).

(19) With regard to claim 29, claim 29 inherits all the limitations of claim 21.

Furthermore, Matsukane et al. further discloses in the steps of recording a history of said quality level with respect to another variable; identifying a maximum quality level; and indicating when said quality is at said maximum level (col. 8, lines 59-65, col. 9, lines 1-20).

(20) With regard to claim 30, claim 30 inherits all the limitations of claim 21. Furthermore, Matsukane et al. discloses in the steps of providing feedback to control reception, said feedback relate to said quality level of reception; and adjusting said reception based on said feedback, thereby improving said quality level of said reception (col. 7, lines 17-26, col. 9, lines 9-10).

### ***Conclusion***

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cicely Ware whose telephone number is 571-272-3047. The examiner can normally be reached on Monday – Friday, 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone numbers

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for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

*Cicely Ware*

cqw

December 15, 2005



STEPHEN CHIN  
SUPERVISORY PATENT EXAMINEE  
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